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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/007,574	11/09/2001	Cesare Peschle	9855-26U3	3808	
570 7	590 02/11/2003				
	10/007,574 11/09/2001 Cesare Peschle	EXAMINER			
AKIN GUMP STRAUSS HAUER & FELD L.L.P. ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200	BELYAVSKYI, MICHAIL A				
PHILADELPH	IIA, PA 19103-7013	ART UNIT		PAPER NUMBER	
			1644	7	
			DATE MAILED: 02/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati n No.	Applicant(s)
Office Action Summary		10/007,574	PESCHLE, CESARE
	Office Action Summary	Examiner	Art Unit
	The MAN INCODER CO.	Michail A Belyavskyi	1644
Period fo	The MAILING DATE of this communicati n app or Reply	ears on the cover sheet with the c	rrespondence address
- Exter after - If the - If NO - Failur - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the second APADOME Cause the application to become APADOME	s will be considered timely. the mailing date of this communication.
1)🛛	Responsive to communication(s) filed on 09 N	lovember 2001 .	
2a) <u></u> ☐		s action is non-final.	
3)□ Disposition	Since this application is in condition for allowa closed in accordance with the practice under <i>l</i> on of Claims	nce except for formal matters pro	osecution as to the merits is 53 O.G. 213.
4)⊠	Claim(s) 1-18,32,46,50 and 54 is/are pending i	in the application.	•
4	4a) Of the above claim(s) is/are withdraw	n from consideration.	
	Claim(s) is/are allowed.		
6)□	Claim(s) is/are rejected.	•	
7)	Claim(s) is/are objected to.		
8)⊠ Applicatio	Claim(s) <u>1-18,32,46,50 and 54</u> are subject to re on Papers	striction and/or election requirem	ent.
	The specification is objected to by the Examiner		
	The drawing(s) filed on is/are: a) ☐ accept		
٠-,۵	Applicant may not request that any objection to the		
11) <u></u> ⊤		is: a) ☐ approved b) ☐ disapprov	
,	If approved, corrected drawings are required in repl		red by the Examiner.
12)[] T	he oath or declaration is objected to by the Exa		
	nder 35 U.S.C. §§ 119 and 120		
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. \$ 110(a)	(d) on (5)
	All b) Some * c) None of:	priority under 33 0.3.C. § 119(a)-	·(u) or (1).
	1. Certified copies of the priority documents	have been received	
	2. Certified copies of the priority documents		- N-
	—		
	B. Copies of the certified copies of the priorit application from the International Bure se the attached detailed Office action for a list of	au (PCT Rule 17.2(a))	-
14)∏ Ac	knowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e)	(to a provisional application).
_a)	The translation of the foreign language proving the translation of the foreign language proving the translation of the translat	sional application has been recei	ved.
Attachment(s		•••	
2) 🔲 Notice (of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Par	PTO-413) Paper No(s) tent Application (PTO-152)
Patent and Trade O-326 (Rev.	***	on Summary	Part of Paner No. 7

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DETAILED ACTION

1. Applicant's amendment, filed 11/09/01 (6), is acknowledged.

Claims 1-18, 32, 46, 50 and 54 are pending.

Restriction Requirement

- 2. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
 - I. Claims 1-11, 13-17 and 46, drawn to a method of generating a differentiated human cell wherein human stem cell is isolated using KDR1 antibody, classified in Class 435, subclasses 325, 384; Class 530, subclass 387.1; Class 424, subclass 93.7.
 - II. Claims 1-11, 13-17 and 46, drawn to a method of generating a differentiated human cell wherein human stem cell is isolated using KDR2 antibody, classified in Class 435, subclasses 325, 384; Class 530, subclass 387.1; Class 424, subclass 93.7.
 - III. Claims 1-9 and 12-17 drawn to a method of generating a differentiated human cell wherein human stem cell is isolated using conjugated vascular endothelial growth factor, classified in Class 435, subclass 325 and Class 530, subclass 350.
 - IV. Claims 18, 32, 50 and 54 drawn to a method of enhancing repairing a damaged human tissue and to a method of rejuvenating an age-damage human tissue, classified in Class 424, subclass 93.7, 577; Class 435, subclass 384.
- 4. Groups I- IV are different methods. These inventions are different with respect to ingredients, method steps, and endpoints; therefore, each method is patentably distinct.
- 5. These inventions are distinct for the reasons given above. In addition, they have acquired a separate status in the art as shown by different classification and/or recognized divergent subject matter. Further, even though in some cases the classification is shared, a different field of search would be required based upon the structurally distinct products recited and the various methods of use comprising distinct method steps. Moreover, a prior art search also requires a literature search. It is an undue burden for the examiner to search more than one invention. Therefore restriction for examination purposes as indicated is proper.

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Species Election

6. Applicant is further required under 35 USC 121 (1) to elect a single disclosed species to which the claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.

A. If Group I, II or III is elected, Applicant is required to elect a specific to a method of generating a differentiated human cell, wherein: a specific tissue is selected from the group recited in claim 6 and a specific differentiated mammalian cell is selected from the group recited in claim 17.

In addition: (i) if embryonic tissue is selected, Applicant is required to select a specific tissue selected from the group recited in claim 7; (ii) if fetal tissue is selected Applicant is required to select a specific tissue selected from the group recited in claim 8; (iii) if post-natal tissue is selected Applicant is required to select a specific tissue selected from the group recited in claim 9.

These species are distinct because a method of generating a differentiated human cell, wherein: a specific tissue is selected from the group recited in claim 6 and a specific differentiated mammalian cell is selected from the group recited in claim 17 differ with respect to the specific tissue used; thus each specific method employing a specific tissue represents patentably distinct subject matter. Furthermore, the examination of these species would require different searches in the scientific literature.

B. If Group IV is elected, Applicant is required to elect a specific method of repairing a damaged or rejuvenating an age-damage human tissue, wherein the stem cell differentiated to become an specific altered cell selected from the group recited in Claims 18 and 32.

These species are distinct because a specific method of repairing a damaged human tissue, wherein the stem cell differentiated to become an specific altered cell selected from the group recited in Claims 18 and 32 differ with respect to the altered cell; thus each specific method employing a specific altered cell represents patentably distinct subject matter. Furthermore, the examination of these species would require different searches in the scientific literature.

7. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103 of the other invention.

- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is (703) 308-4232. The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196.

Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center telephone number is (703) 305-3014.

Michail Belyavskyi, Ph.D. Patent Examiner Technology Center 1600 February 10, 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600